

# EXHIBIT A

12 BL/6 mice immunized with 90  $\mu$ g  
OVA / Alum. 150  $\mu$ g 156 day 21-2  
Group A: injected with 156 5. days.  
Cage # AE 6513  
Group B: injected with 150  $\mu$ g  $\alpha$ 0X40L 3.  
day 21-27, Cage # AE 6512  
Group C: injected with 150  $\mu$ g  $\alpha$ 0X40L + 2.4  
day 27-31, Cage # AE 6511  
Aerosol (5 mg/ml OVA) 10ml ~30 min  
14 days.

	24	25	26	27	28	29	30	31
A I. 150 $\mu$ g IgG								
B II. 150 $\mu$ g $\alpha$ 0X40L								
C III. 150 $\mu$ g $\alpha$ 0X40L								
Aerosol (5 mg/ml OVA)								
Airway								

OX40L blocking Asthma

Group A	IL-4 (ng/ml)	IFN	IL5	IL13	IgE (Ab/L)
1	1.52 <1.0		<0.3		1147.5
2	0.248 <1.0		<0.3		997.2
3	<0.1 <1.0		<0.3		1377.8
4	<0.1 <1.0		<0.3		1395.8
Avg	0.884				1229.575
Group B					
1	0.35 <1.0		<0.3		693.7
2	0.046 <1.0		<0.3		734.4
3	0.182 <1.0		<0.3		1537.2
4	0.208 <1.0		<0.3		803.2
Avg	0.1965				942.125
Group C					
1	0.22 <1.0		<0.3		305.7
2	0.304 <1.0		<0.3		867.7
3	0.16 <1.0		<0.3		1240.12
4	<0.1 <1.0		<0.3		1356.4
Avg	0.228				942.48

Control

2.5/4.0

2.2/0.2

2.2/4.0

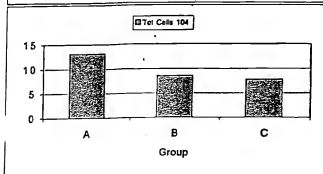
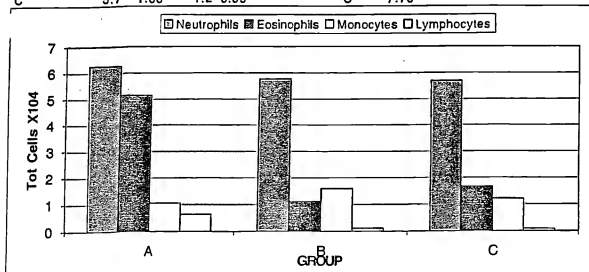
2.2/0.2

# Differential cell counts

Group A		Neutrophils			Eosinophils			Monocytes			Lymphocytes			Tot cells10 <sup>4</sup>
		#	%	Tot # of	#	%	Tot # of	#	%	Tot # of	#	%	Tot # of	
		cells X10 <sup>4</sup>			cells X10 <sup>4</sup>			cells X10 <sup>4</sup>			cells X10 <sup>4</sup>			
1		83	62.4	9.36	44	33.1	5	6	4.5	0.7	0	0	0	15
2		57	43.2	9.07	62	47	9.87	10	7.6	1.6	3	2.2	0.46	21
3		53	44.9	4.27	51	43.2	4.1	11	9.3	0.88	3	2.6	0.25	9.5
4		14	33.3	2.33	11	26.2	1.8	6	14.3	1	11	26.2	1.83	7
Average			46	6.26		37	5.19		8.9	1.05		7.8	0.64	13.125
Group B														
1		76	72.4	5.07	19	18.1	1.27	10	9.5	0.67	0	0	0	7
2		58	54	3.83	25	23.6	1.65	2	18.9	1.4	3	2.8	0.2	7
3		73	67	7.5	12	11	1.23	24	22	2.46	0	0	0	11.2
4		89	74.2	6.68	4	3.3	0.3	24	20	1.8	3	2.5	0.23	9
Average			67	5.77		14	1.11		18	1.58		1.3	0.11	8.55
Group C														
1		33	55	5.5	7	11.7	1.17	20	33.3	3.3	0	0	0	10
2		5			5			3			6			5
3		78	66.1	4.76	37	31.4	2.26	3	2.5	0.18	0	0	0	7.2
4		98	77.8	6.85	22	17.5	1.54	2	1.6	0.14	4	3.2	0.28	8.8
Average			66	5.7		20	1.66		13	1.2		1.1	0.09	7.75

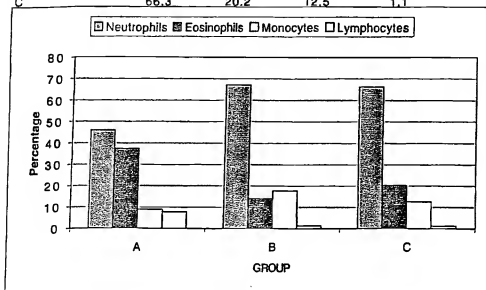
Average cell #

GP	Neutr	Eosino	Monocyt	Lymphocytes	Tot Cells 104
A	6.3	5.16	1.05	0.64	13.1
B	5.8	1.11	1.58	0.11	8.55
C	5.7	1.66	1.2	0.09	7.75



Average Differential cell counts

	Neutrophils	Eosinophils	Monocytes	Lymphocytes
A	45.95	37.4	8.9	7.8
B	67.1	14	17.6	1.3
C	66.3	20.2	12.5	1.1



Total IgE

	A	B	C
1	1147.5	693.7	305.7
2	997.2	734.4	867.7
3	1377.8	1537.2	1240.1
4	1395.8	803.2	1356.4
Mean	1229.575	942.125	942.475

